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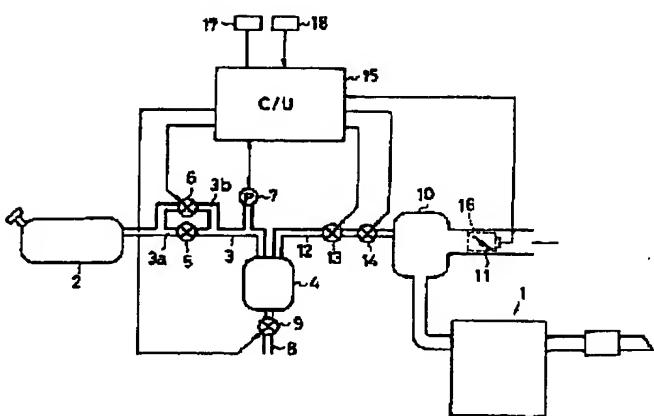
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TITLE : FUEL PROPERTY ESTIMATION
 DEVICE FOR INTERNAL COMBUSTION
 ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To eliminate the need of a specific sensor for detecting fuel properties and reduce the cost by detecting the fuel properties in a fuel tank based on the change states in relation to the elapsed time from the periphery after the starting of an engine in the internal pressure of the fuel tank.

SOLUTION: One end of an evaporative emission path 3 is connected to a fuel tank 2 and the other end is connected to a canister 4. The evaporative emission path 3 is branched on its way and joined afterward, and a check valve 5 and a solenoid bypass valve 6 are interposed in one 3a and the other 3b of the branch piping part respectively. A pressure sensor 7 for detecting the pressure in the fuel tank 2 is arranged in the evaporative emission path 3 between respective valves 5, 6 and the canister 4. The control unit 15 judges the fuel properties based on the detection signal of the pressure sensor 7. Namely, based on the change states in the tank internal pressure in relation to the elapsed time after starting of the pressure, the fuel properties corresponding thereto is estimated.

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